

## REVISING A TEST SUITE USING DIAGNOSTIC EFFICACY EVALUATION

### ABSTRACT OF THE INVENTION

A method and a system evaluate an efficacy of a test suite in a model-based diagnostic testing system to determine a revision of the test suite. The evaluation comprises suggesting a test to be added to the test suite based on probabilities of a correct diagnosis and an incorrect diagnosis. The evaluation either alternatively or further comprises identifying a test to be deleted from the test suite based on probabilities of a correct diagnosis for the test suite and for a modified test suite that does not include a test. An efficacy value of each test in the test suite is computed. The system has a computer program comprising instructions that implement an evaluation of diagnostic efficacy of the test suite. The system either is a stand-alone system or is incorporated into the testing system.

20241018 10:55:00